

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Previously Presented) An objective lens for an optical pick-up that converges a parallel light beam incident thereon onto a recording layer of an optical medium, said objective lens comprising:

a single glass plano-convex lens having a rotationally symmetrical convex aspherical surface at the incident side of the parallel light beam and a flat surface at the side of said optical medium, configured to maintain a numerical aperture of at least 0.7.

2. (Previously Presented) The objective lens according to claim 1, wherein the refractive index of said glass is at least 1.6.

3. (Previously Presented) The objective lens according to claim 1, wherein said plano-convex lens is produced by glass molding with a pair of dies that correspond to said convex and flat surfaces, respectively.

4. (Previously Presented) The objective lens according to claim 1, wherein said

plano-convex lens is provided with an outer flange formed around the edge thereof.

5. (Previously Presented) An optical pickup, comprising:

a light source that emits a light beam;

an objective lens that converges the light beam emitted from said light source onto a recording layer of an optical medium, said objective lens comprising a single glass plano-convex lens having a rotationally symmetrical convex aspherical surface at the incident side of the light beam and a flat surface at the side of said optical medium, configured to maintain a numerical aperture of at least 0.7; and

a magnetic coil for applying a magnetic field to said optical medium, said magnetic coil being arranged on said flat surface of said objective lens.

6. (Previously Presented) The objective lens according to claim 1, wherein

wavefront aberration of said objective lens is less than 0.07λ rms.

7. (Previously Presented) The objective lens according to claim 5, wherein

wavefront aberration of said objective lens is less than 0.07λ rms.

8. (New) The objective lens according to claim 1, wherein said objective lens is

not a solid immersion lens.

9. (New) The objective lens according to claim 5, wherein said objective lens is not a solid immersion lens.

10. (New) The optical pick-up according to claim 5, wherein said optical pick-up comprises an actuator configured to move the objective lens in the direction of an optical axis of the objective lens.